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6. A tool for withdrawing a soil sample, said tool comprising a frame member including an inverted U-shaped guard portion including spaced upright legs having lower ends, a foot portion fixed to said lower ends of said legs and including an outer perimeter extending laterally beyond said spaced legs, a slot defined by a vertically extending wall and including an entry part, a semi-circular part extending from said entry part and located between said legs, and a groove located in said wall and extending horizontally, and an abutment portion extending horizontally between said legs in upwardly spaced relation from said foot portion, an elongated hollow cylindrical member adapted to be inserted into the ground, extending downwardly from said foot portion, and including an inner wall, upper and lower ends, and a flange extending horizontally outwardly from said upper end and removably located in said groove, and a plunger member located, in part, between said legs and, in part, for slideable movement within said hollow member and including upper and lower ends, and a piston sealing engaging said inner wall of said hollow member, and a horizontally extending portion at said upper end thereof engageable with said abutment portion of said frame member to prevent upward movement of said plunger member during insertion of said tubular member into the ground.

6. A tool in accordance with Claim 5 wherein said plunger member includes a stem extending downwardly from said upper end thereof and having a cross shaped horizontal cross-section, and vertically extending edges engaging said inner wall of said hollow member, and a cap located at said upper end, fixed to said stem and including said horizontally extending portion.

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12. A tool in accordance with Claim 12 wherein
said cylindrical member includes an axis, wherein said
straight portions of said groove respectively have
inner vertically extending straight wall surfaces
5 spaced horizontally from said straight portions of said
vertically extending wall at a first distance, wherein
said circular portion of said groove has an inner
vertically extending circular wall surface extending at
a constant radius from said axis of said cylindrical
10 member, concentrically with said axis of said
cylindrical member, and spaced horizontally from said
semi-cylindrical portion of said vertically extending
wall at a second distance greater than said first
distance, and wherein said flange includes a pair of
15 horizontally spaced straight edges which are
horizontally spaced at a distance slightly less than
the horizontal spacing between said straight wall
surfaces of said groove, and a pair of opposed circular
edges which extend concentrically with said axis of
20 said cylindrical member, and which are spaced
horizontally from said axis of said cylindrical member
at a distance slightly less than the spacing of said
circular wall surface from said axis of said
cylindrical member.

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